

GB2145897

Publication Title:

Stereoscopic display

Abstract:

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A display system is provided which gives an illusion of depth to an observer by generating left and right eye image projections for view by the observer. The system includes an observer tracking system which monitors the position of the observer and accordingly adjusts the projected scene perspective by adjusting apertures 21, 22 (mounted side by side) so that the two images from displays 12, 13 are projected onto respective eyes of the observer. Filters 15, 19 polarise light passing through them in orthogonal directions and apertures 21, 22 are correspondingly polarised sheets. The observer tracking system 10 may include arrays of photosensitive cells or two parallel mounted video cameras. The system is particularly described for use in a video arcade game but may also be used in an aircraft cockpit or domestic environment when the apertures comprise matrices of liquid crystal shutters and the two displays may project images of different programmes (Figs. 5-9 not shown).

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